RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/798,025
Source: 1FWO
Date Processed by STIC: 12/14/05

ENTERED

IFWO

RAW SEQUENCE LISTING   DATE: 12/14/2005
PATENT APPLICATION: US/10/798,025   TIME: 18:25:29

Input Set : N:\Crf4\12132005\K798025.raw
Output Set: N:\CRF4\12142005\J798025.raw

```
     1 <110> APPLICANT: Langmore, John
     2        Makarov, Vladimir
     3 <120> TITLE OF INVENTION: Method of Producing a DNA Library Using Positional
Amplification
     4 <130> FILE REFERENCE: UMIC:047US0/10103482
C--> 5 <140> CURRENT APPLICATION NUMBER: US/10/798,025
     6 <141> CURRENT FILING DATE: 2004-03-11
     7 <160> NUMBER OF SEQ ID NOS: 121
     8 <170> SOFTWARE: PatentIn version 3.1
    10 <210> SEQ ID NO: 1
    11 <211> LENGTH: 24
    12 <212> TYPE: DNA
    13 <213> ORGANISM: Unknown
    14 <220> FEATURE:
    15 <223> OTHER INFORMATION: Primer
    16 <400> SEQUENCE: 1
    17       gatcgcctat acctaggacc atgt                              24
    19 <210> SEQ ID NO: 2
    20 <211> LENGTH: 22
    21 <212> TYPE: DNA
    22 <213> ORGANISM: Artificial Sequence
    23 <220> FEATURE:
    24 <223> OTHER INFORMATION: DNA/RNA Primer
    25 <220> FEATURE:
    26 <221> NAME/KEY: misc_feature
    27 <222> LOCATION: (1)..(22)
    28 <223> OTHER INFORMATION: Ribonucleotide at 7, 10 ,13, 19
    29 <400> SEQUENCE: 2
    30       gttacauggu ccuaggtaua gg                               22
    32 <210> SEQ ID NO: 3
    33 <211> LENGTH: 23
    34 <212> TYPE: DNA
    35 <213> ORGANISM: Unknown
    36 <220> FEATURE:
    37 <223> OTHER INFORMATION: Primer
    38 <400> SEQUENCE: 3
    39       gttacatggt cctaggtata ggc                              23
    41 <210> SEQ ID NO: 4
    42 <211> LENGTH: 37
    43 <212> TYPE: DNA
    44 <213> ORGANISM: Unknown
    45 <220> FEATURE:
    46 <223> OTHER INFORMATION: Primer
    47 <400> SEQUENCE: 4
```

```
48        gatcgcctat acctaggacc atgtaacgaa ttcatca                      37
50 <210> SEQ ID NO: 5
51 <211> LENGTH: 45
52 <212> TYPE: DNA
53 <213> ORGANISM: Unknown
54 <220> FEATURE:
55 <223> OTHER INFORMATION: DNA/RNA Primer
56 <220> FEATURE:
57 <221> NAME/KEY: misc_feature
58 <222> LOCATION: (1)..(45)
59 <223> OTHER INFORMATION: Ribonucleotide at 24, 29, 35, 41
60 <400> SEQUENCE: 5
61        aggtcgccgc cctgatgaat tcgutacaug gtccuaggta uaggc             45
63 <210> SEQ ID NO: 6
64 <211> LENGTH: 12
65 <212> TYPE: DNA
66 <213> ORGANISM: Unknown
67 <220> FEATURE:
68 <223> OTHER INFORMATION: Primer
69 <400> SEQUENCE: 6
70        gggcggcgac ct                                                 12
72 <210> SEQ ID NO: 7
73 <211> LENGTH: 25
74 <212> TYPE: DNA
75 <213> ORGANISM: Unknown
76 <220> FEATURE:
77 <223> OTHER INFORMATION: Primer
78 <400> SEQUENCE: 7
79        gggagatctg aattcccccc ccccc                                   25
81 <210> SEQ ID NO: 8
82 <211> LENGTH: 23
83 <212> TYPE: DNA
84 <213> ORGANISM: Unknown
85 <220> FEATURE:
86 <223> OTHER INFORMATION: Primer
87 <400> SEQUENCE: 8
88        gggagatctg aattcaaaaa aaa                                     23
90 <210> SEQ ID NO: 9
91 <211> LENGTH: 24
92 <212> TYPE: DNA
93 <213> ORGANISM: Unknown
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Primer
96 <400> SEQUENCE: 9
97        gaattcagat ctcccgggtc accg                                    24
99 <210> SEQ ID NO: 10
100 <211> LENGTH: 30
101 <212> TYPE: DNA
102 <213> ORGANISM: Unknown
```

```
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Primer
105 <400> SEQUENCE: 10
106       gcggtgaccc gggagatctg cccccccccc                          30
108 <210> SEQ ID NO: 11
109 <211> LENGTH: 30
110 <212> TYPE: DNA
111 <213> ORGANISM: Unknown
112 <220> FEATURE:
113 <223> OTHER INFORMATION: Primer
114 <400> SEQUENCE: 11
115       gcggtgaccc gggagatctg aaaaaaaaaa                          30
117 <210> SEQ ID NO: 12
118 <211> LENGTH: 42
119 <212> TYPE: DNA
120 <213> ORGANISM: Unknown
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Primer
123 <400> SEQUENCE: 12
124       cagatctccc gggtcaccgc gcctatacct aggaccatgt aa            42
126 <210> SEQ ID NO: 13
127 <211> LENGTH: 25
128 <212> TYPE: DNA
129 <213> ORGANISM: Unknown
130 <220> FEATURE:
131 <223> OTHER INFORMATION: Primer
132 <400> SEQUENCE: 13
133       gcggtgaccc gggagatctg aattc                              25
135 <210> SEQ ID NO: 14
136 <211> LENGTH: 25
137 <212> TYPE: DNA
138 <213> ORGANISM: Unknown
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Primer
141 <400> SEQUENCE: 14
142       gcggtgaccc gggagatctg aattc                              25
144 <210> SEQ ID NO: 15
145 <211> LENGTH: 38
146 <212> TYPE: DNA
147 <213> ORGANISM: Unknown
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Primer
150 <400> SEQUENCE: 15
151       aggtcgccgc cctgaattca gatctcccgg gtcaccgc                38
153 <210> SEQ ID NO: 16
154 <211> LENGTH: 27
155 <212> TYPE: DNA
156 <213> ORGANISM: Unknown
157 <220> FEATURE:
```

RAW SEQUENCE LISTING   DATE: 12/14/2005
PATENT APPLICATION: US/10/798,025   TIME: 18:25:29

Input Set : **N:\Crf4\12132005\K798025.raw**
Output Set: **N:\CRF4\12142005\J798025.raw**

```
      158 <223> OTHER INFORMATION: Primer
      159 <220> FEATURE:
      160 <221> NAME/KEY: misc_feature
      161 <222> LOCATION: (27)..(27)
      162 <223> OTHER INFORMATION: n equals ddC
      163 <400> SEQUENCE: 16
W--> 164       gatcgcctat acctaggacc atgtaan                        27
      166 <210> SEQ ID NO: 17
      167 <211> LENGTH: 23
      168 <212> TYPE: DNA
      169 <213> ORGANISM: Artificial Sequence
      170 <220> FEATURE:
      171 <223> OTHER INFORMATION: DNA/RNA Primer
      172 <220> FEATURE:
      173 <221> NAME/KEY: misc_feature
      174 <222> LOCATION: (1)..(23)
      175 <223> OTHER INFORMATION: Ribonucletide at 7, 10, 13, 19
      176 <220> FEATURE:
      177 <221> NAME/KEY: misc_feature
      178 <222> LOCATION: (23)..(23)
      179 <223> OTHER INFORMATION: n equals ddC
      180 <400> SEQUENCE: 17
W--> 181       gttacauggu ccuaggtaua ggn                            23
      183 <210> SEQ ID NO: 18
      184 <211> LENGTH: 26
      185 <212> TYPE: DNA
      186 <213> ORGANISM: Unknown
      187 <220> FEATURE:
      188 <223> OTHER INFORMATION: Primer
      189 <400> SEQUENCE: 18
      190       gatcgcctat acctaggacc atgtaa                         26
      192 <210> SEQ ID NO: 19
      193 <211> LENGTH: 23
      194 <212> TYPE: DNA
      195 <213> ORGANISM: Artificial Sequence
      196 <220> FEATURE:
      197 <223> OTHER INFORMATION: DNA/RNA Primer
      198 <220> FEATURE:
      199 <221> NAME/KEY: misc_feature
      200 <222> LOCATION: (1)..(23)
      201 <223> OTHER INFORMATION: Ribonucleotide at 7, 10, 13, 19
      202 <400> SEQUENCE: 19
      203       gttacauggu ccuaggtaua ggc                            23
      205 <210> SEQ ID NO: 20
      206 <211> LENGTH: 37
      207 <212> TYPE: DNA
      208 <213> ORGANISM: Unknown
      209 <220> FEATURE:
      210 <223> OTHER INFORMATION: Primer
```

RAW SEQUENCE LISTING   DATE: 12/14/2005
PATENT APPLICATION: US/10/798,025   TIME: 18:25:29

Input Set : N:\Crf4\12132005\K798025.raw
Output Set: N:\CRF4\12142005\J798025.raw

```
211 <400> SEQUENCE: 20
212       gatcgcctat acctaggacc atgtaacgaa ttcatca                    37
214 <210> SEQ ID NO: 21
215 <211> LENGTH: 45
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: DNA/RNA Primer
220 <220> FEATURE:
221 <221> NAME/KEY: misc_feature
222 <222> LOCATION: (1)..(45)
223 <223> OTHER INFORMATION: Ribonucleotide at 24, 29, 35, 41
224 <400> SEQUENCE: 21
225       aggtcgccgc cctgatgaat tcgutacaug gtccuaggta uaggc          45
227 <210> SEQ ID NO: 22
228 <211> LENGTH: 26
229 <212> TYPE: DNA
230 <213> ORGANISM: Unknown
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Primer
233 <220> FEATURE:
234 <221> NAME/KEY: misc_feature
235 <222> LOCATION: (26)..(26)
236 <223> OTHER INFORMATION: n equals ddC
237 <400> SEQUENCE: 22
```
W--> 238 **gggagatctg aattcccccc cccccn**   26
```
240 <210> SEQ ID NO: 23
241 <211> LENGTH: 25
242 <212> TYPE: DNA
243 <213> ORGANISM: Unknown
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Primer
246 <220> FEATURE:
247 <221> NAME/KEY: misc_feature
248 <222> LOCATION: (25)..(25)
249 <223> OTHER INFORMATION: n equals ddC
250 <400> SEQUENCE: 23
```
W--> 251 **gaattcagat ctcccgggtc accgn**   25
```
253 <210> SEQ ID NO: 24
254 <211> LENGTH: 53
255 <212> TYPE: DNA
256 <213> ORGANISM: Unknown
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Primer
259 <400> SEQUENCE: 24
260       gttacatggt cctaggtata ggcgcggtga cccgggagat ctgccccccc ccc  53
262 <210> SEQ ID NO: 25
263 <211> LENGTH: 42
264 <212> TYPE: DNA
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 12/14/2005
PATENT APPLICATION: US/10/798,025   TIME: 18:25:30

Input Set : **N:\Crf4\12132005\K798025.raw**
Output Set: **N:\CRF4\12142005\J798025.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:16; N Pos. 27
Seq#:17; N Pos. 23
Seq#:22; N Pos. 26
Seq#:23; N Pos. 25
Seq#:26; N Pos. 25
Seq#:27; N Pos. 25
Seq#:42; N Pos. 47,48,49,50
Seq#:44; N Pos. 47,48,49,50
Seq#:62; N Pos. 47,48,49,50
Seq#:64; N Pos. 26

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 3

VERIFICATION SUMMARY   DATE: 12/14/2005
PATENT APPLICATION: US/10/798,025   TIME: 18:25:30

Input Set : N:\Crf4\12132005\K798025.raw
Output Set: N:\CRF4\12142005\J798025.raw

```
L:5 M:270 C: Current Application Number differs, Replaced Current Application Number
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0 .
```